Unit Exam - Ecosystem (50 points total)

Multiple Choice (2 points each)

Determine the best answer from the possible choices. Fill in the blank with the correct letter.

\_\_\_ 1. Which of the list below contain only abiotic factors:

1. Air, water, flower
2. Rabbit, beetle, flower
3. Tree, beetle, temperature
4. Temperature, climate, water

\_\_\_ 2. What is the main source of oxygen in the oxygen cycle?

1. Animals
2. Ozone
3. Plants
4. Sunlight

\_\_\_ 3. Choose the correct order from smallest to largest:

1. Organism, ecosystem, population, community, biosphere
2. Organism, community, population, ecosystem, biosphere
3. Organism, population, community, ecosystem, biosphere
4. Organism, population, ecosystem, community, biosphere

\_\_\_ 4. Where do the producers in a food chain get their energy?

1. Decomposers
2. Nutrients in soil
3. Sunlight
4. Rain

\_\_\_ 5. Why must all food chains begin with producers?

1. Producers are only able to consume decomposers to obtain energy
2. The relationship between producers and consumers is beneficial to both
3. Consumers must always eat other consumers to make energy
4. Producers are the only organism that can make energy from non-living material

\_\_\_ 6. Choose the list below that only includes renewable resources:

1. Hair, gas, plants
2. Oil, gas, coal
3. Water, trees, hair
4. Trees, oil, cooper

\_\_\_ 7. Humans are using \_\_\_\_\_\_\_\_\_ natural resources now than they did 100 years ago:

1. More
2. The same amount
3. Less

Short Answer

For the following give a short and complete answer. Read each question completely and answer all parts of each question. Complete sentences are not necessary. Partial credit is possible.

11. List three current energy sources used by humans. (3 points)

12. What is the difference between non- renewable and renewable natural resources? Give two reasons for why we should know the difference. (3 points)

13. List three ways you can reduce your use of natural resources. (3 points)

14. Choose one modification/destruction of an ecosystem caused by humans and predict two changes to that ecosystem because of the change. (3 points)

15. Describe the conservation of energy through the food web. (2 points)

Essay (6 points each)

For essay questions be sure to include an introduction paragraph, a supporting paragraph, and a conclusion paragraph. Also use complete sentences and proper grammar.

16. How do non-living features of an ecosystem meet the needs of living organisms? (Be sure to include at least three examples)

17. Why should you care about the ecosystem stability of the rainforest in the Amazon? (Be sure to include at least three reasons)